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### **Search Results** - Record(s) 1 through 30 of 30 returned.

1. Document ID: US 20020182673 A1

L3: Entry 1 of 30

File: PGPB

Dec 5, 2002

PGPUB-DOCUMENT-NUMBER: 20020182673

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020182673 A1

TITLE: IL-17 homologous polypedies and therapeutic uses thereof

PUBLICATION-DATE: December 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chen, Jian	Princeton	NJ	US	
Filvaroff, Ellen	San Francisco	CA	US	
Fong, Sherman	Alameda	CA	US	
French, Dorothy	Redwood City	CA	US	
Goddard, Audrey	San Francisco	CA	US	
Godowski, Paul J.	Hillsborough	CA	US	
Grimaldi, J. Christopher	San Francisco	CA	US	
Gurney, Austin L.	Belmont	CA	US	
Hillan, Kenneth J.	San Francisco	CA	US	
Hymowitz, Sarah G.	San Francisco	CA	US	
Li, Hanzhong	San Mateo	CA	US	
Pan, James	Zitobicoke	CA	CA	
Starovasnik, Melissa A.	San Francisco	CA	US	
Tumas, Daniel	Orinda	CA	US	
Van Lookeren, Menno	San Francisco	CA	US	
Vandlen, Richard	Hillsborough	CA	US	
Watanabe, Colin K.	Moraga	CA	US	
Williams, P. Mickey	Half Moon Bay	CA	US	
Wood, William I.	Hillsborough	CA	US	
Yansura, Daniel G.	Pacifica		US	

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 530/350, 536/23.5

Full Title Citation Front Review Classification Date Reference Sequences Attachments KMIC Draw. Desc Image

☐ 2. Document ID: US 20020177551 A1

L3: Entry 2 of 30

File: PGPB

Nov 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020177551

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020177551 A1

# **WEST Search History**

DATE: Thursday, December 05, 2002

Set Name side by side	Query	Hit Count S	Set Name result set
DB=USPT, OP=ADJ	PGPB,EPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES;		
L5	L4 and (CD40 adj binding same protein?)	14	L5
L4	CD40 same disease?	160	L4
L3	L2 and disease?	30	L3
L2	TNF same (superfamily or family) and binding?	52	L2
. L1	CD40 adj binding adj protein?	9	L1

END OF SEARCH HISTORY



# PALM INTRANET

Day: Thursday Date: 12/5/2002 Time: 15:48:17

## **Inventor Name Search Result**

Your Search was:

Last Name = PYPE

First Name = STEFAN

Application#	Patent#	Status	Date Filed	Title	Inventor Name
09697863	Not	071	10/27/2000	CD40-INTERACTING AND TRAF-	PYPE, STEFAN M C
	Issued			INTERACTING PROTEINS	

Inventor Search Completed: No Records to Display.

Search Another: Inventor pype | Stefan | Search

To go back use Back button on your browser toolbar.

Back to PALM | ASSIGNMENT | OASIS | Home page



# PALM INTRANET

Day: Thursday Date: 12/5/2002 Time: 15:50:56

### **Inventor Name Search Result**

Your Search was:

Last Name = REMACLE First Name = JACQUES

Application#	Patent#	Status	Date Filed	Title	Inventor Name
	6313280		11/24/1999		REMACLE, JACQUES
09964238	Not Issued	030		SMAD-INTERACTING POLYPEPTIDES AND THEIR USE	REMACLE, JACQUES
10028396	Not Issued	030		NUCLEIC ACID BINDING OF MULTI-ZINC FINGER TRANSCRIPTION FACTORS	REMACLE, JACQUES
09697863	Not Issued	071		CD40-INTERACTING AND TRAF- INTERACTING PROTEINS	REMACLE, JACQUES E F

Inventor Search Completed: No Records to Display.

	Last Name	First Name	
Search Another: Inventor	remacle	jacques	Search

To go back use Back button on your browser toolbar.

Back to PALM | ASSIGNMENT | OASIS | Home page



# PALM INTRANET

Day: Thursday Date: 12/5/2002 Time: 15:52:11

### **Inventor Name Search Result**

Your Search was:

Last Name = HUYLEBROECK

First Name = DANNY

Application#	Patent#	Status	Date Filed	Title	Inventor Name
09449285	6313280	150	1	1	HUYLEBROECK , DANNY
09964238	Not Issued	030			HUYLEBROECK, DANNY
10028396	Not Issued	030		NUCLEIC ACID BINDING OF MULTI-ZINC FINGER TRANSCRIPTION FACTORS	HUYLEBROECK, DANNY
09697863	Not Issued	071	10/27/2000	CD40-INTERACTING AND TRAF-INTERACTING PROTEINS	HUYLEBROECK, DANNY F E

Inventor Search Completed: No Records to Display.

	Last Name	First Name	
<b>Search Another: Inventor</b>			yan magan sesenda tahasasan se
	huylebroeck	danny	Search

To go back use Back button on your browser toolbar.

Back to PALM | ASSIGNMENT | OASIS | Home page

FILE 'HOME' ENTERED AT 20:55:56 ON 05 DEC 2002

=> index bioscience medicine pharmacology meetings

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED

COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST

0.21 SESSION 0.21 0.21

INDEX 'ADISALERTS, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...'

ENTERED AT 20:56:40 ON 05 DEC 2002

83 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view search error messages that display as 0\* with SET DETAIL OFF.

=> s (CD40 (w) binding (w) protein?) and (tumor (w) necrosis (w) factor (s) (family or superfamily))

- 1 FILE AGRICOLA
- 3 FILE BIOSIS
- 3 FILE BIOTECHNO
- 12 FILES SEARCHED...
  - 1 FILE CANCERLIT
  - 3 FILE CAPLUS
- 17 FILES SEARCHED...
- 24 FILES SEARCHED...
  - 3 FILE EMBASE
  - FILE ESBIOBASE
- 33 FILES SEARCHED...
  - 0\* FILE FEDRIP
  - 3 FILE LIFESCI
- 44 FILES SEARCHED...
  - 5 FILE MEDLINE
- 50 FILES SEARCHED...
  - 3 FILE SCISEARCH
  - 2 FILE TOXCENTER
  - 5 FILE USPATFULL
- 60 FILES SEARCHED...
  - 2 FILE WPIDS
  - 2 FILE WPINDEX
- 71 FILES SEARCHED...
- 14 FILES HAVE ONE OR MORE ANSWERS, 83 FILES SEARCHED IN STNINDEX
- L1 QUE (CD40 (W) BINDING (W) PROTEIN?) AND (TUMOR (W) NECROSIS (W) FACTOR (S) (FAMILY OR SUPERFAMILY))

=> file hits

COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 9.54 9.75

FULL ESTIMATED COST

FILE 'MEDLINE' ENTERED AT 21:07:19 ON 05 DEC 2002

FILE 'USPATFULL' ENTERED AT 21:07:19 ON 05 DEC 2002 CA INDEXING COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'BIOSIS' ENTERED AT 21:07:19 ON 05 DEC 2002 COPYRIGHT (C) 2002 BIOLOGICAL ABSTRACTS INC.(R)

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=> dup rem l15

PROCESSING COMPLETED FOR L15

L16 12 DUP REM L15 (25 DUPLICATES REMOVED)

=> d 116 1-12 ibib abs

L16 ANSWER 1 OF 12 USPATFULL

ACCESSION NUMBER: 2002:78211 USPATFULL

TITLE: Method for treatment of tumors using photodynamic

therapy

INVENTOR(S): Fanslow, William C., III, Normandy Park, WA, UNITED

STATES

Thomas, Elaine K., Seattle, WA, UNITED STATES

PATENT ASSIGNEE(S): IMMUNEX CORPORATION, Seattle, WA, UNITED STATES (U.S.

corporation)

NUMBER KIND DATE

US 2002041864 A1 20020411 PATENT INFORMATION: US 2001-842745 A1 20010425 (9) APPLICATION INFO.:

> NUMBER DATE

PRIORITY INFORMATION: US 2000-199545P 20000425 (60)

PRIORITY INFORMATION

DOCUMENT TYPE: Utility

APPLICATION

LEGAL REPRESENTATIVE: IMMUNEX CORPORATION, LAW DEPARTMENT, 51 UNIVERSITY

\_\_\_\_\_

STREET, SEATTLE, WA, 98101

NUMBER OF CLAIMS: EXEMPLARY CLAIM: LINE COUNT: 889

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

A method for treating tumor-bearing subjects that includes administering to the tumor bearing subject a therapeutically effective amount of a

CD40 binding protein in conjunction with

photodynamic therapy, is disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 2 OF 12 USPATFULL

ACCESSION NUMBER: 2002:303718 USPATFULL

Methods of reducing bone loss with CD40 ligand TITLE: Ahuja, Seema A., San Antonio, TX, United States INVENTOR(S):

Bonewald, Lynda F., San Antonio, TX, United States

Board of Regents, The University of Texas System, PATENT ASSIGNEE(S):

Austin, TX, United States (U.S. corporation)

NUMBER . KIND DATE \_\_\_\_\_\_

US 6482411 B1 20021119 US 2000-645926 20000824 PATENT INFORMATION:

20000824 (9) APPLICATION INFO.:

NUMBER DATE

-----

PRIORITY INFORMATION: US 1999-151250P 19990827 (60)

DOCUMENT TYPE: Utility FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Gambel, Phillip

LEGAL REPRESENTATIVE: Williams, Morgan and Amerson

NUMBER OF CLAIMS: 34 EXEMPLARY CLAIM: 1

3 Drawing Figure(s); 2 Drawing Page(s) NUMBER OF DRAWINGS:

LINE COUNT: 5120

Provided are methods and compositions using one or more CD40 agonists, such as CD40 ligands and/or agonistic anti-CD40 antibodies, to reduce or prevent cell death, or apoptosis, in bone cells. Methods of treating or preventing bone loss, including osteoporosis, as well as methods of reducing or eliminating the bone loss associated with steroid administration are particularly provided. Further disclosed are a

variety of therapeutic kits and cocktails.

L16 ANSWER 3 OF 12 WPIDS (C) 2002 THOMSON DERWENT

ACCESSION NUMBER: 2001-235057 [24] WPIDS

DOC. NO. CPI: C2001-070422

TITLE: Modulating the immune system, useful e.g. for treating cancer or infections, by administering an antigen and

agent that binds or activates CD40, inducing cytotoxic T

cells. B04 D16

DERWENT CLASS: INVENTOR(S): OHASHI, PS

PATENT ASSIGNEE(S): (UYHE-N) UNIV HEALTH NETWORK

COUNTRY COUNT: 90

PATENT INFORMATION:

PATENT NO KIND DATE WEEK LA PG

WO 2001015728 A1 20010308 (200124)\* EN 67

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ

NL OA PT SD SE SL SZ TZ UG ZW

W: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS

LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL

TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

AU 2000066770 A 20010326 (200137)

#### APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 20010157	28 A1	WO 2000-CA960	20000823
AU 20000667	70 A	AU 2000-66770	20000823

#### FILING DETAILS:

PATENT NO	KIND		PA	TENT NO
AU 20000667	70 A	Based on	WO	200115728

PRIORITY APPLN. INFO: US 1999-384862 19990827

AN 2001-235057 [24] WPIDS

AB WO 200115728 A UPAB: 20010502

NOVELTY - Modulating the immune system by administering an antigenic molecule (I) to generate antigen-presenting cells (APC) that present (part of) (I) on their surface and administering a CD40-binding or -activating molecule (II), specific for APC that display (I) in vivo, is used to prime activation of a cytotoxic T lymphocyte (CTL)-mediated, antigen-specific immune response.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for increasing the in vivo effect of a vaccine (A) by administering it in conjunction with (II).

ACTIVITY - Immunomodulatory; anticancer; antibacterial; antiviral; antiparasitic; antifungal.

MECHANISM OF ACTION - Activation of CTL to target and destroy antigen-expressing cells. Treatment with (II) increases interferon production and prevents induction of tolerance.

Transgenic Bln/TCR mice (Cell, 65 (1991) 305) expressed the p33 glycoprotein of lymphocytic choriomeningitis virus in the pancreas, under control of the rat insulin II promoter. They were immunized intravenously with 5 micro g p33 and 48 hours later with 0.1 mg of an anti-CD40 antibody. All treated animals became diabetic, with mean time to onset 6 days but no animals that were injected with a control adenoviral protein rather than p33 did. This showed that anti-CD40 activated cytotoxic T lymphocytes for destruction of islet cells that expressed the 'transgenic self' antigen p33.

USE - The method is used, particularly with (I) as part of a vaccine, for treatment and prevention of infectious diseases, cancer and autoimmune diseases, e.g. prostatic or other cancers, leukemia, lymphoma, condyloma accuminatum, and infections by hepatitis, herpes simplex, cytomegalo or human immune deficiency viruses, parasites, bacteria or fungi.

ADVANTAGE - (II) provide effective priming of (I)-displaying APC, resulting in an efficient killer cell response and an improved protective effect.

Dwg.0/6

L16 ANSWER 4 OF 12 USPATFULL

ACCESSION NUMBER: 2000:9518 USPATFULL

TITLE: Activated dendritic cells and methods for their

activation

INVENTOR(S): Maraskovsky, Eugene, Seattle, WA, United States

Mc Kenna, Hilary J., Seattle, WA, United States

Immunex Corporation, Seattle, WA, United States (U.S.

(8)

corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 6017527 20000125 APPLICATION INFO.: US 1996-763995 19961212

RELATED APPLN. INFO.: Continuation of Ser. No. US 1996-677762, filed on 10

Jul 1996, now abandoned

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

PRIMARY EXAMINER: Chan, Christina Y.
ASSISTANT EXAMINER: Gambel, Phillip
LEGAL REPRESENTATIVE: Henry, Janis C.

NUMBER OF CLAIMS: 15 EXEMPLARY CLAIM: 1

PATENT ASSIGNEE(S):

NUMBER OF DRAWINGS: 3 Drawing Figure(s); 3 Drawing Page(s)

LINE COUNT: 1133

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Antigen-expressing, activated dendritic cells are disclosed. Such dendritic cells are used to present tumor, viral or bacterial antigens to T cells, and can be useful in vaccination protocols. Other cytokines can be used in separate, sequential or simultaneous combination with the activated, antigen-pulsed dendritic cells. Also disclosed are methods for stimulating an immune response using the antigen-expressing, activated dendritic cells.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 5 OF 12 MEDLINE DUPLICATE 1

ACCESSION NUMBER: 2000309820 MEDLINE

DOCUMENT NUMBER: 20309820 PubMed ID: 10764746

TITLE: TTRAP, a novel protein that associates with CD40, tumor

necrosis factor (TNF) receptor-75 and TNF

receptor-associated factors (TRAFs), and that inhibits

nuclear factor-kappa B activation.

AUTHOR: Pype S; Declercq W; Ibrahimi A; Michiels C; Van Rietschoten

J G; Dewulf N; de Boer M; Vandenabeele P; Huylebroeck D;

Remacle J E

CORPORATE SOURCE: Department of Cell Growth, Flanders Interuniversity

Institute for Biotechnology, Campus Gasthuisberg, University of Leuven, Herestraat 49, B-3000 Leuven,

Belgium.

SOURCE: JOURNAL OF BIOLOGICAL CHEMISTRY, (2000 Jun 16) 275 (24)

18586-93.

Journal code: 2985121R. ISSN: 0021-9258.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

OTHER SOURCE: GENBANK-AJ251328; GENBANK-AJ269473

ENTRY MONTH: 200007

ENTRY DATE: Entered STN: 20000728

Last Updated on STN: 20020420 Entered Medline: 20000720

AB CD40 belongs to the tumor necrosis factor

(TNF) receptor **family**. CD40 signaling involves the recruitment of TNF receptor-associated factors (TRAFs) to its cytoplasmic domain. We

have identified a novel intracellular CD40-binding

protein termed TRAF and TNF receptor-associated protein (TTRAP) that also interacts with TNF-R75 and CD30. The region of the CD40 cytoplasmic domain that is required for TTRAP association overlaps with the TRAF6 recognition motif. Association of TTRAP with CD40 increases profoundly in response to treatment of cells with CD40L. Interestingly, TTRAP also associates with TRAFs, with the highest affinity for TRAF6. In

transfected cells, TTRAP inhibits in a dose-dependent manner the transcriptional activation of a nuclear factor-kappaB (NF-kappaB)dependent reporter mediated by CD40, TNF-R75 or Phorbol 12-myristate 13-acetate (PMA) and to a lesser extent by TRAF2, TRAF6, TNF-alpha, or interleukin-1beta (IL-1beta). TTRAP does not affect stimulation of NF-kappaB induced by overexpression of the NF-kappaB-inducing kinase (NIK), the IkappaB kinase alpha (IKKalpha), or the NF-kappaB subunit P65/RelA, suggesting it acts upstream of the latter proteins. Our results indicate that we have isolated a novel regulatory factor that is involved in signal transduction by distinct members of the TNF receptor family.

L16 ANSWER 6 OF 12 USPATFULL

1999:141625 USPATFULL ACCESSION NUMBER:

Isolated nucleic acid molecules useful as leukemia TITLE:

markers and in breast cancer prognosis and encoded

polypeptides

Rio, Marie-Christine, Illkirch, France INVENTOR(S):

Tomasetto, Catherine, Strasbourg, France

Basset, Paul, Strasbourg, France Byrne, Jennifer, Ashfield, Australia

Bristol-Myers Squibb Company, Princeton, NJ, United PATENT ASSIGNEE(S):

States (U.S. corporation)

Institut National de la Sante et de la Recherche Medicale, Paris Cedex, France (non-U.S. corporation) Centre National de la Recherche Scientifique, Paris

Cedex, France (non-U.S. corporation)

Universite Louis Pasteur, Strasbourg Cedex, France

(non-U.S. corporation)

NUMBER KIND DATE

US 5981218 19991109 US 1996-691814 19960731 PATENT INFORMATION: APPLICATION INFO.: 19960731 (8)

NUMBER DATE

\_\_\_\_\_\_\_ PRIORITY INFORMATION: US 1995-2183P 19950809 (60)

DOCUMENT TYPE: Utility FILE SEGMENT: Granted PRIMARY EXAMINER: Feisee, Lila

PRIMARY EXAMINER: Feisee, Lila
ASSISTANT EXAMINER: Kaufman, Claire M.
LEGAL REPRESENTATIVE: Sterne, Kessler, Goldstein & Fox P.L.L.C.

NUMBER OF CLAIMS: 48 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 53 Drawing Figure(s); 45 Drawing Page(s)

7347 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The present invention relates to four novel human genes amplified and AΒ overexpressed in breast carcinoma and located on the q11-q21.3 region of chromosome 17. The four novel genes are useful in breast cancer prognosis. The present invention also relates to a fifth novel human gene expressed in breast carcinoma and located on chromosome 6q22-q23. A sixth novel gene is also described that is the murine homolog of the human D52 gene. The genes and gene fragments of the present invention are themselves useful as DNA and RNA probes for gene mapping by in situ hybridization with chromosomes and for detecting gene expression in human tissues (including breast and lymph node tissues) by Northern blot analysis.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 7 OF 12 WPIDS (C) 2002 THOMSON DERWENT

ACCESSION NUMBER: 2000-062029 [05] WPIDS

DOC. NO. NON-CPI: N2000-048592 DOC. NO. CPI: C2000-017141

TITLE:

Novel proteins used to treat inflammatory diseases, NF-kappaB related diseases and for improvement of

anti-tumor treatments.

DERWENT CLASS:

B04 D16 S03

INVENTOR(S): PATENT ASSIGNEE(S):

HUYLEBROECK, D F E; PYPE, S M C; REMACLE, J E F J G (VLAA-N) VLAAMS INTERUNIVERSITAIR INST BIOTECHNOG

COUNTRY COUNT:

PATENT INFORMATION:

WEEK LA PG PATENT NO KIND DATE \_\_\_\_\_

WO 9955859 A2 19991104 (200005)\* EN 48

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL

OA PT SD SE SL SZ UG ZW

W: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT

UA UG US UZ VN YU ZW

AU 9939310 A 19991116 (200015)

A2 20010207 (200109) EN EP 1073739

R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

JP 2002512796 W 20020508 (200234) AU 752597 B 20020926 (200268) 55

#### APPLICATION DETAILS:

PATENT NO K	IND	APPLICATION	DATE	
WO 9955859 AU 9939310 EP 1073739	A2 A A2	WO 1999-EP3025 AU 1999-39310 EP 1999-922165	19990428 19990428 19990428	
JP 2002512796		WO 1999-EP3025 WO 1999-EP3025	19990428 19990428	
AU 752597	В	JP 2000-546003 AU 1999-39310	19990428 19990428	

#### FILING DETAILS:

PATENT NO KI	ND		PA	TENT NO
110 33030=1	A2 W	Based on Based on Based on Previous Pub Based on	WO WO	9955859 9955859 9955859 9939310
		Daseu OII	WO	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

PRIORITY APPLN. INFO: EP 1998-201392 19980429

AN 2000-062029 [05] WPIDS

WO 9955859 A UPAB: 20000128 AB

NOVELTY - An isolated functional protein (I) capable of interacting with the cytoplasmic domain of CD40 and/or other receptors of the tumor

necrosis factor (TNF) receptor superfamily

such as CD30 and TNF receptor I, where the protein has no homology to TNF receptor associated factor (TRAF)-proteins.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) a nucleic acid sequence (II) encoding (I);
- (2) a method for screening compounds comprising the use of (I);
- (3) a compound isolated with the method of (2).
- (4) a pharmaceutical composition comprising (I), or the compound of (3), and a pharmaceutically acceptable carrier; and
- (5) use of (I) and/or a functional fragment for the manufacture of a pharmaceutical composition to treat TRAF, CD40, and/or NF-kappaB related diseases.

ACTIVITY - Antiarteriosclerotic; antiarthritic; neuroprotective; dermatological; immunosuppressive; antiinflammatory; immunosuppressive; antiallergic.

MECHANISM OF ACTION - CD40 binding

proteins which can be used as modulators of the CD40 signaling

USE - The proteins can be used to diagnose and treat TRAF-related, CD40-related, NF-kappaB related and/or Jun (kinase)-related diseases, for the improvement of anti- tumor diseases (claimed). Diseases which may be treated include atherosclerosis (claimed), arthritis (claimed), multiple sclerosis (claimed), systemic lupus erythematosus (claimed), graft rejection (claimed), graft versus host disease, allergy, and autoimmune disease. The proteins can be used to sensitize tumor cells to antitumor treatments and to screen for compounds which interfere with the interaction of the proteins with other protein components of the TRAF, CD40 or NF-kappaB related pathway (claimed). The composition and antibodies can be used for detecting expression of CD40 related receptor associated proteins. The antibodies may also be used to purify the

ADVANTAGE - None given.

Dwg.0/2

PATENT ASSIGNEE(S):

L16 ANSWER 8 OF 12 USPATFULL

ACCESSION NUMBER: 97:91164 USPATFULL

TITLE: Method of preventing or treating disease characterized

by neoplastic cells expressing CD40

INVENTOR(S): Armitage, Richard J., Bainbridge Island, WA, United

Fanslow, III, William C., Federal Way, WA, United

Longo, Dan L., Kensington, MD, United States Murphy, William J., Frederick, MD, United States Immunex Corporation, Seattle, WA, United States (U.S.

corporation)

The United States of America as represented by the Department of Health and Human Services, Washington,

DC, United States (U.S. government)

NUMBER KIND DATE -----

PATENT INFORMATION: APPLICATION INFO.: US 5674492 19971007 US 1994-360923 19941221 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1993-172664, filed

on 23 Dec 1993, now abandoned

DOCUMENT TYPE: Utility FILE SEGMENT: Granted PRIMARY EXAMINER: PRIMARY EXAMINER: Feisee, Lila ASSISTANT EXAMINER: Gambel, Phillip

LEGAL REPRESENTATIVE: Perkins, Patricia Anne

NUMBER OF CLAIMS: 18 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 12 Drawing Figure(s); 6 Drawing Page(s)

LINE COUNT: 1264

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB There is disclosed a method of treating a mammal afflicted with a disease characterized by neoplastic cells that express CD40, comprising administering a therapeutically effective amount of a CD40

binding protein in a pharmaceutically acceptable

buffer. CD40 binding proteins include

monoclonal antibodies to CD40, and CD40 ligand. CD40 binding proteins may also be used to prevent disease

characterized by neoplastic cells that express CD40, in individuals at risk for such disease.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 9 OF 12 MEDLINE ACCESSION NUMBER: 97189482 MEDLINE DOCUMENT NUMBER: 97189482 PubMed ID: 9037712

Construction and analysis of a detailed three-dimensional

model of the ligand binding domain of the human B cell

receptor CD40.

AUTHOR: Bajorath J; Aruffo A

Bristol-Myers Squibb Pharmaceutical Research Institute, CORPORATE SOURCE:

Seattle, Washington 98121, USA.

SOURCE: PROTEINS, (1997 Jan) 27 (1) 59-70.

Journal code: 8700181. ISSN: 0887-3585.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199706

ENTRY DATE: Entered STN: 19970630

> Last Updated on STN: 19970630 Entered Medline: 19970617

AB The interaction between the human B cell receptor CD40 and its ligand on T cells is critical for B cell proliferation and the regulation of humoral immune responses. CD40 is a member of the tumor necrosis

factor receptor (TNFR) family. We report here the

construction and analysis of a detailed three-dimensional model of the TNFR-homologous extracellular region of CD40. This study provides an example for structure-based model building in the presence of low sequence similarity. The assessment of model quality and sequence-structure compatibility is emphasized, and limitations of the model are discussed. The current CD40 model predicts structural details beyond the backbone level. Features of the CD40 ligand binding site are discussed in conjunction with the results of a previous mutagenesis study.

L16 ANSWER 10 OF 12 MEDLINE DUPLICATE 3

ACCESSION NUMBER: 96029665 MEDLINE

DOCUMENT NUMBER: 96029665 PubMed ID: 7592751

TITLE: Presence of a new conserved domain in CART1, a novel member

of the tumor necrosis factor

receptor-associated protein family, which is

expressed in breast carcinoma.

AUTHOR: Regnier C H; Tomasetto C; Moog-Lutz C; Chenard M P;

Wendling C; Basset P; Rio M C

CORPORATE SOURCE: Institut de Genetique et de Biologie Moleculaire et

Cellulaire, CNRS/INSERM/ULP, C.U. de Strasbourg, France.

SOURCE: JOURNAL OF BIOLOGICAL CHEMISTRY, (1995 Oct 27) 270 (43)

25715-21.

Journal code: 2985121R. ISSN: 0021-9258.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals OTHER SOURCE: GENBANK-X80200

ENTRY MONTH: 199512

ENTRY DATE: Entered STN: 19960124

> Last Updated on STN: 19990129 Entered Medline: 19951214

CART1, a novel human gene, encodes a putative protein exhibiting three main structural domains: first, a cysteine-rich domain located at the amino-terminal part of the protein, which corresponds to an unusual RING finger motif; second, an original cysteine-rich domain located at the core of the protein and constituted by three repeats of an HC3HC3 consensus motif that we designated the CART motif, and which might interact with nucleic acid; third, the carboxyl-terminal part of the CART1 protein corresponds to a TRAF domain known to be involved in protein-protein interactions. Similar association of RING, CART, and TRAF domain was observed in the human CD40-binding protein

and in the mouse tumor necrosis factor (TNF)

receptor-associated factor 2 (TRAF2), both involved in signal transduction mediated by the TNF receptor family and in the developmentally

regulated Dictyostelium discoideum DG17 protein. CART1 is specifically expressed by epithelial cells in breast carcinomas and metastases. Moreover, in these malignant cells, the CART1 protein is localized in the nucleus. Altogether, these observations indicate that CART1 may be involved in TNF-related cytokine signal transduction in breast carcinoma.

L16 ANSWER 11 OF 12 MEDLINE

ACCESSION NUMBER: 95129692 MEDLINE

DOCUMENT NUMBER: 95129692 PubMed ID: 7530216

TITLE: A novel member of the TRAF family of putative signal

transducing proteins binds to the cytosolic domain of CD40.

AUTHOR: Sato T; Irie S; Reed J C

CORPORATE SOURCE: La Jolla Cancer Research Foundation, Oncogene & Tumor

Suppressor Gene Program, CA 92037.

SOURCE: FEBS LETTERS, (1995 Jan 23) 358 (2) 113-8.

Journal code: 0155157. ISSN: 0014-5793.

PUB. COUNTRY: Netherlands

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals OTHER SOURCE: GENBANK-L38509

ENTRY MONTH: 199502

ENTRY DATE: Entered STN: 19950307

Last Updated on STN: 19960129 Entered Medline: 19950223

AB CD40 is a member of the tumor necrosis factor

receptor (TNF-R) family that regulates B-lymphocyte proliferation, immunoglobulin class-switching, and apoptosis through poorly defined signal transduction mechanisms. Using a yeast two-hybrid method, cDNAs were obtained that encode a novel protein, CD40-associated protein-1 (CAP-1), which binds specifically to the cytosolic domain of CD40 but not TNF-R1, TNF-R2, or Fas. The CAP-1 protein contains a C-terminal domain that shares strong amino acid sequence homology with a unique domain found recently in two putative signal transducing proteins that bind to the TNF-R2 cytosolic tail, TRAF1 and TRAF2. This C-terminal region of CAP-1 was sufficient to mediate binding to CD40 and homodimerization of CAP-1 proteins. The N-terminal portion of CAP-1 contains a RING finger motif and three zinc finger-like domains similar to those found in several regulatory proteins that interact with DNA or RNA. CAP-1 thus represents a new member of a family of potential signal transducing proteins that contain a conserved domain (the TRAF domain), bind to the cytosolic regions of particular members of TNF-R family proteins, and that can form homo- and heterotypic dimers.

L16 ANSWER 12 OF 12 MEDLINE DUPLICATE 4

ACCESSION NUMBER: 95073988 MEDLINE

DOCUMENT NUMBER: 95073988 PubMed ID: 7527023

TITLE: A novel RING finger protein interacts with the cytoplasmic

domain of CD40.

AUTHOR: Hu H M; O'Rourke K; Boguski M S; Dixit V M

CORPORATE SOURCE: Department of Pathology, University of Michigan Medical

School, Ann Arbor 48109.

CONTRACT NUMBER: CA61348 (NCI)

SOURCE: JOURNAL OF BIOLOGICAL CHEMISTRY, (1994 Dec 2) 269 (48)

30069-72.

Journal code: 2985121R. ISSN: 0021-9258.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals OTHER SOURCE: GENBANK-U15637

ENTRY MONTH: 199412

ENTRY DATE: Entered STN: 19950116

Last Updated on STN: 19960129 Entered Medline: 19941230

AB CD40 is a member of the tumor necrosis factor

receptor family and, like other members, it appears to possess no intrinsic signaling capacity (e.g. kinase activity), suggesting that signal transduction is likely mediated by associating molecules. To identify such molecules, we have utilized the yeast two-hybrid system to clone cDNAs encoding proteins that bind the CD40 cytoplasmic domain. One such interacting protein, designated CD40-binding protein, has a N-terminal RING finger motif that is found in a number of DNA-binding proteins, including the V(D)J recombination activating gene RAG1. In addition, it contains a prominent central coiled-coil segment that may allow homo- or hetero-oligomerization. The C terminus possesses substantial homology to the tumor necrosis factor receptor-associated factor (TRAF) domain that is found in two proteins (TRAF1 and TRAF2) that associate with the cytoplasmic domain of the related 75-kDa tumor necrosis factor receptor. This is the first identification of a molecule that interacts with CD40 and whose sequence suggests a potential role in signaling.

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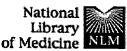


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Distinct effects of CD30 and Fas signaling in cutaneous anaplastic lymphomas: a possible mechanism for disease progression.

Levi E, Wang Z, Petrogiannis-Haliotis T, Pfeifer WM, Kempf W, Drews R, Kadin ME.

Department of Pathology, Beth Israel-Deaconess Medical Center and Harvard Medical School, Boston, Massachusetts 02215, USA.

Lymphomatoid papulosis is part of a spectrum of CD30+ cutaneous lymphoproliferative disorders characterized by spontaneous tumor regression. The mechanism(s) of regression is unknown. In a recent study, a selective increase in CD30 ligand expression in regressing lesions of lymphomatoid papulosis and cutaneous CD30+ anaplastic large cell lymphoma was shown, suggesting that activation of the CD30 signaling pathway may be responsible for tumor regression, whereas no difference in Fas/Fas ligand expression was found between regressing and nonregressing lesions. Therefore we tested the effects of CD30 and Fas activation on three CD30+ cutaneous lymphoma cell lines (Mac-1, Mac-2 A, JK) derived from nonregressing tumors of two patients who had progressed from lymphomatoid papulosis to systemic anaplastic large cell lymphoma. To evaluate the effects of CD30 signaling, the cell lines were incubated with a CD30 agonistic antibody, HeFi-1. Proliferative responses, mitogen-activated protein kinase, and nuclear factor kappa B activities were determined with and without CD30 activation. Mac-1 and Mac-2 A showed increased proliferative responses to incubation with CD30 activating antibody, HeFi-1. Inhibition of the mitogenactivated protein kinase activity caused growth inhibition of the Mac-1, Mac-2 A, and JK cell lines. Activation of the Fas pathway induced apoptosis in all three cell lines. Taken together, these findings suggest that resistance to CD30-mediated growth inhibition provides a possible mechanism for escape of cutaneous anaplastic large cell lymphoma from tumor regression. Mitogen-activated protein kinase inhibitors are potential therapeutic agents for the treatment of advanced cutaneous anaplastic large cell lymphoma. J Invest Dermatol 115:1034-1040, 2000

PMID: 11121138 [PubMed - indexed for MEDLINE]









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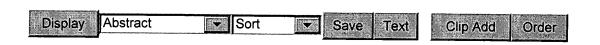
Elevated soluble CD40 ligand is related to the endothelial adhesion molecules in patients with acute coronary syndrome.

Peng DQ, Zhao SP, Li YF, Li J, Zhou HN.

Department of Cardiology, The Second Xiangya Hospital, Central South University, Changsha, Hunan 410011, China. pengdq@hotmail.com

BACKGROUND: Increasing evidence indicates that the CD40-CD40L interaction plays a pivotal role in the inflammatory regulation of atherosclerosis. Adhesion molecules especially the vascular adhesion molecules also play an important role in the pathogenesis of atherosclerosis which act as markers of inflammation. These inflammatory factors render vulnerability to the atherosclerotic plaque by triggering the fissure, rupture, and subsequent thrombosis, leading to the clinical scenario of unstable angina and acute myocardial infarction. METHODS: The difference of sCD40L concentration in different subtype of coronary heart disease and its relationship with vascular adhesion molecules was investigated. Enzyme-linked Immunosorbent Assay (EIA) was used to measure the serum sCD40L, soluble intercellular adhesion molecule-1 (sICAM-1), and soluble vascular cell adhesion molecule-1 (sVCAM-1). RESULTS: The sCD40L concentration was significantly higher in patients with acute coronary syndrome (ACS) (3.17+/-2.84 ng/ml) than in controls (1.19+/-1.05 ng/ml, p<0.01) and in patients with stable coronary heart disease (1.61+/-1.46 ng/ml, p<0.05). The sCD40L concentration was positively correlated with sICAM-1 (r=0.413, p<0.01), triglycerides (TG) (r=0.23, p<0.05), apoB (r=0.248, p<0.05), and HDL-cholesterol (r=-0.253, p<0.05). CONCLUSIONS: The sCD40L concentration was increased in acute coronary syndrome, suggesting the possible relation of CD40L to the pathogenesis. The serum CD40L concentration was positively correlated with adhesion molecule and was negatively associated with serum high-density lipoprotein cholesterol (HDL-C).

PMID: 11922919 [PubMed - indexed for MEDLINE]



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Abstract

Epstein-Barr virus and a cellular signaling pathway in lymphomas from immunosuppressed patients.

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Liebowitz D.

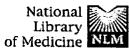
Marjorie B. Kovler Viral Oncology Laboratories, Department of Medicine, University of Chicago, IL 60637, USA.

BACKGROUND: Epstein-Barr virus (EBV) is associated with various malignant and benign lymphoproliferative disorders. It also efficiently transforms human B lymphocytes in vitro. The latent membrane protein 1 (LMP1) of EBV-infected cells plays a central part in this process by mimicking members of the family of tumor necrosis factor (TNF) receptors, thereby transmitting growth signals from the cell membrane to the nucleus through cytoplasmic TNF-receptor-associated factors (TRAFs). I sought evidence of LMP1-mediated signal transduction through TRAFs in tumor tissue from patients with post-transplantation lymphoproliferative disease and non-Hodgkin's lymphomas related to the acquired immunodeficiency syndrome (AIDS). METHODS: The association of LMP1 with TRAF-1 or TRAF-3 in tumor tissue was studied with double-immunofluorescence microscopy and immunoprecipitation assays. Evidence of LMP1-TRAF signaling was sought with an electrophoretic mobility shift assay for the nuclear factor-kappaB (NF-kappaB) transcription factor. RESULTS: Tumors from eight patients with posttransplantation lymphoproliferative disease, two patients with AIDS-associated non-Hodgkin's lymphoma, and three patients with endemic Burkitt's lymphoma were analyzed. Tumors from six of the patients with post-transplantation lymphoproliferative disease were positive for EBV and expressed LMP1; two samples were EBV-negative. Tumors from both patients with AIDS-associated non-Hodgkin's lymphoma were EBV-positive and expressed LMP1, whereas tumors from all three patients with Burkitt's tumors were positive for EBV but negative for LMP1. Double-immunofluorescence microscopy showed that LMP1 localized with and immunoprecipitated with TRAF-1 and TRAF-3 in all eight of the EBVpositive, LMP1-positive samples. An electrophoretic mobility shift assay revealed activated NF-kappaB in all eight EBV-positive, LMP1-positive samples as well, but not in either of the EBV-negative, LMP1-negative samples or in the three EBVpositive, LMP1-negative samples. CONCLUSIONS: LMP1-mediated signaling through the TRAF system has a role in the pathogenesis of the EBV-positive lymphomas that arise in immunosuppressed patients.

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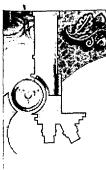
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Abstract





MYELOMA DICTIONARY

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Myeloma Treatment **Adhesion molecules:** Complimentary molecules present on cell surfaces that allow cells to interact with each other, acting in the same way as a lock and key.

**Bisphosphonates** 

**Allogeneic transplantation:** Transplantation from a human donor who is not an identical genetic match.

Chemotherapy

Peripheral Blood Stem Cell (PBSC) Transplantatio Allogeneic Stem Cell Transplantation: A procedure in which bone marrow or peripheral blood stem cells from a donor (usually related) are collected, stored, and infused into a patient (recipient) following high-dose chemotherapy or radiation therapy.

Thalidomide

Emerging Treatments Allograft: An allogeneic stem cell transplant.

Immunotherapy

**Alpha interferon:** Cytokine produced by T cells that exhibits a variety of immunomodulating effects, including suppression of cell growth, and enhancement of tumor cell killing.

Managing Fatigue

Anemia: A decrease in the number of red blood cells in the blood.

Myeloma Basics

Angiogenesis: The growth of new blood vessels.

**Antibodies**: Any of various proteins (immunoglobulins) that are generated in reaction to foreign proteins (antigens), thus producing an immunity against that protein.

**Antigen**: A substance that stimulates the production of an antibody to which it subsequently binds.

**Antisense drug:** Chemically altered stretch of DNA bases designed to bind to block the production of specific proteins.

Apheresis: A procedure in which blood is taken from a donor, a blood component (such as white blood cells, red blood cells, or plasma) is separated out, and the remaining blood components are reinfused back into the donor. With PBSC transplantation, the white blood cell component, which also contains the stem cells, is collected. In this case, the procedure may also be referred to as leukapheresis.

Apoptosis: Programmed (natural) cell death.

Autograft: An autologous stem cell transplant.

**Autologous transplantation**: Transplantation whereby the patient's own cells are reinfused.

Autologous Stem Cell Transplantation: A procedure in which a

patient's own stem cells from bone marrow or peripheral blood are collected, stored, and reinfused following high-dose chemotherapy or radiation therapy.

**B cell:** Also called a B lymphocyte. White blood cell that gives rise to a plasma cell after being exposed to a foreign substance.

Bence-Jones protein: See light chain.

Beta 2-microglobulin ( $\beta^2$ -microglobulin or  $\beta^2$ -M): A protein normally found on the surface of various cells in the body. Increased serum levels occur in inflammatory conditions and certain lymphocyte disorders, such as myeloma.

Biaxin: an antibiotic

**Bisphosphonate:** Type of drug used to treat osteoporosis and bone disease in cancer patients. Bisphosphonates work by inhibiting the activity of bone destroying cells called osteoclasts.

**Blood urea nitrogen (BUN):** A byproduct of protein metabolism that is normally filtered out of the blood and found in the urine. Elevated levels in the blood can indicate decreased kidney function.

**Bone (skeletal) survey:** A series of x-rays of the skull, spine, arms, ribs, and legs.

**Bone marrow:** Soft, spongy tissue found in the center of many bones where blood cells are produced.

**Bone marrow aspiration:** Removal of fluid and cells of the bone marrow via use of a needle.

**Bone marrow biopsy:** Removal of bone marrow tissue via the use of a needle.

**Bone marrow microvessel density (MVD):** A measure of the number of blood vessels in a bone marrow sample.

**Bone marrow transplantation:** A procedure in which stem cell-containing bone marrow is collected, stored, and infused following high-dose chemotherapy or radiation therapy.

**C-reactive protein (CRP):** A protein produced by the liver when there is an inflammatory process occurring in the body. Serum levels of CRP are increased in various inflammatory diseases, degenerative diseases, and cancers, including myeloma.

**Calcium:** Mineral important in bone formation. Elevated serum levels occur when there is bone destruction.

**CD34+:** A cell surface marker -CD stands for cluster of differentiation and the 34+ indicates a specific antigen for which this cell is positive. Stem cells are CD34+.

Chemotherapy: The use of drugs to treat cancer.

**Chromosome:** A thread-like structure in a living cell that contains genetic information.

**Chromosome 13**: Chromosomes are strands of DNA that are composed of genes containing instructions for all the production of body proteins. In some individuals with multiple myeloma, part of the short arm of chromosome 13 is deleted.

Chromosome analysis (cytogenetic testing): A laboratory test that measures the number and normalcy of chromosomes. Also known as cytogenetic testing.

Colony-Stimulating Factor (CSF): Protein that stimulates the development and growth of blood cells; sometimes called growth factor. Granulocyte colony-stimulating factor is a CSF that is used to mobilize stem cells from the bone marrow into the bloodstream prior to apheresis.

Complete Blood Count (CBC): Blood test that measures the number of red blood cells, white blood cells, and platelets in the blood and the relative proportions of the white blood cells present.

**Computed tomography (CT):** See computerized axial tomography (CAT).

**Computerized axial tomography (CAT):** Also known as computed tomography (CT). Imaging technique that uses a computer to generate 3-dimensional x-ray pictures.

**Conventional chemotherapy:** Chemotherapy that does not require stem cell rescue.

**Corticosteroid:** A potent class of drugs that has anti-inflammatory, immunosuppressive, and antitumor effects. Dexamethasone and prednisone are examples of corticosteroids.

**Creatinine:** A product of energy metabolism of muscle that is normally filtered out of the blood and found in the urine. Elevated levels in the blood can indicate decreased kidney function.

**Cytokine**: Soluble factor produced by cells that has an effect on other cells.

Cytogenetic testing: See chromosome analysis.

**Decadron:** also known as Dexamethasone, is a corticosteroid. See corticosteroids. It is part of the chemotherapy regimen called VAD.

**Dendritic cell:** Immune cell that plays an important role in initiating and regulating immune responses.

**Dexamethasone:** also known as Decadron, is a corticosteroid. See corticosteroids. It is used as part of the chemotherapy regimen called VAD.

DMSO: Dimethyl sulfoxide, a colorless chemical used for

cryopreservation of stem cells. When introduced into the body, may cause unpleasant or even serious toxic effects.

**DNA (deoxyribonucleic acid):** The genetic material of the cell located in the chromosomes.

**Electrophoresis:** Laboratory test used to measure the levels of various proteins in the blood or urine. Uses an electrical current to sort proteins by their molecular size.

**Engraftment:** The process in which stem cells in transplanted bone marrow or blood migrate to the bone marrow and begin to grow and produce new white blood cells, red blood cells, and platelets.

**Erythropoietin:** Growth factor that stimulates the bone marrow to produce red blood cells.

**Farnesyl transferase:** Enzyme involved in a signaling pathway that causes cancer cells to grow.

**Filgrastim:** A growth factor - GCSF (granulocyte colony stimulating factor) that stimulates the growth of white cells in the bone marrow.

**Graft-versus-host disease (GVHD):** Complication of allogeneic transplants resulting from donor immune cells recognizing the recipient's cells as foreign and mounting an attack against them.

**Graft-versus-myeloma effect**: Beneficial effect of allogeneic transplants resulting from the donor cells mounting an attack on the recipient's myeloma cells

**Heavy chain:** One of the long protein chains that make up an immunoglobulin molecule.

**Hematologic:** Pertaining to the blood.

**Hematopoiesis:** The formation and development of blood cells in the bone marrow.

**Hemoglobin:** The substance in the red blood cell that carries oxygen.

**Hypercalcemia:** Condition noted by elevated levels of calcium in the blood due to increased bone destruction.

**Ildiotype**: Part of an antibody that determines exactly what antigen the antibody acts against.

**Idiotype vaccine**: A vaccine that uses the idiotype of an antibody as the antigen with which to stimulate an immune response.

**Immune response:** The interaction of an antigen with lymphocytes to induce the formation of antibodies.

**Immune System:** Network of related cells, tissues, and organs that protect the body from disease organisms, other foreign bodies, and cancers.

**Immunoelectrophoresis (IEP):** Also called immunofixation. Type of electrophoresis that uses a special antibody staining technique to identify specific types of immunoglobulin and light chains.

Immunofixation: See immunoelectrophoresis.

Immunoglobulin: An antibody that is produced by the plasma cell. Normally, it is made up of two types of proteins, one is called the heavy chain, the other the light chain.

**Immunosuppressive drug:** Drug given to suppress a patient's immune system, such as one given to prevent rejection of transplanted tissue.

**Immunotherapy**: The treatment of, or prevention against, a disease achieved through manipulation of the patient's immune system.

**Institutional Review Board (IRB)**: A board designed to oversee the research process in order to protect participant safety. Made up of researchers, ethicists, and laypeople from the community, the board must review the trial protocols and the informed consent forms participants sign.

**Interferon (IFN):** A substance produced in the body by infected cells that protects noninfected cells from viral infection.

**Interleukin -2 (IL-2):**A cytokine (growth factor) that is produced by T-cells, which are lymphocytes.

**Interleukin 6 (IL-6):** A cytokine that promotes the growth and survival of myeloma cells.

**Interleukin 12 (IL-2):** Cytokine that promotes T cell function and tumor cell killing.

Lactate dehydrogenase (LDH): An enzyme found in body tissues. Elevated blood levels occur when there is tissue damage and may occur in myeloma, where they reflect tumor-cell burden.

**Leukine:** A granulocyte colony stimulating factor (G-CSF) that stimulates the growth of white blood cells in the bone marrow

**Light chain:** One of the short protein chains that make up an immunoglobulin molecule. May be of the kappa or lambda type. Light chains produced by myeloma cells are also referred to as Bence-Jones proteins.

**Lymphocyte:** Small white blood cell essential for normal function of the immune system; may be 1 of 2 types: a T lymphocyte or B lymphocyte.

Magnetic resonance imaging (MRI): Imaging technique that uses magnetic energy to provide detailed images of bone and soft tissue.

**Maintenance therapy:** Therapy used over a long period of time to prolong the length of remission.

Malignant: Cancerous, continuing to divide.

Matrix metalloproteinases (MMPs): Enzymes that break down the structure of connective tissue.

Melphalan: A chemotherapy agent (commercial name- Alkeran").

**Mini-allograft:** Type of allogeneic stem cell transplant that uses lower doses of chemotherapy or radiation and thus does not completely destroy the bone marrow; also known as mini-transplant or non-myeloablative transplant.

Mini-transplant: See Mini-allograft.

Monoclonal antibody: An identical copy of an antibody.

**Monoclonal (M) protein:** Identical immunoglobulin protein produced by myeloma cells. M protein is found in the blood or urine and is used as a marker for the amount of myeloma disease present in the body.

**Monoclonal gammopathy of undetermined significance (MGUS):** A precancerous and asymptomatic condition noted by the presence of M protein in the serum or urine. MGUS may progress to myeloma.

Morphology: Overall appearance.

Mucositis - Mouth and throat sores

**Myeloablation:** The killing of bone marrow by radiation or chemotherapy. This term usually refers to the complete or near-complete destruction of the bone marrow.

Nephrotoxicity: Toxicity to the kidneys.

**Neutropenia:** A below-normal number of neutrophils.

Neutrophil: A type of white blood cell that functions to destroy bacteria.

**New Erythropoesis Stimulating Protein:** a new protein that stimulates the bone marrow to produce red blood cells

Non-myeloablative transplant: See Mini-allograft.

Office for Human Research Protections (OHRP): This office safeguards participants in federally funded research and provides unity and leadership for many federal departments and agencies that carry out research involving human participants.

Osteoblast: Bone-forming cell.

**Osteoclast**: Bone-destroying cell that works in conjunction with bone-forming cells to repair bone.

**Osteolytic lesion:** Soft spot in the bone where bone tissue has been destroyed. The lesion appears as a hole on a standard bone x-ray.

Osteoporosis: Generalized bone loss typically associated with old age.

**Palliative:** Meant to reduce symptoms and relieve pain rather than to alter the course of disease.

Paraprotein: See monoclonal protein.

**Peripheral Blood Stem Cell (PBSC):** Stem cells collected from the blood. The term "peripheral" means that the cells come from outside the bone marrow.

**Peripheral Blood Stem Cell (PBSC) Transplantation:** A procedure in which blood containing mobilized stem cells is collected by apheresis, stored, and infused following high-dose chemotherapy or radiation therapy.

**Placebo:** A drug or treatment that is designed to look like the medicine being tested but that doesn't have the active ingredient. Placebos are rarely used in cancer treatment trials.

Plasma cell: Antibody-secreting immune cell that develops from a B cell.

Plasma Cell Labeling Index (PCLI): The percentage of plasma cells that are actively dividing.

Plasmablast: Immature plasma cell.

**Plasmacytoma:** Single tumor comprised of malignant plasma cells that occurs in bone or soft tissue. Patients with a plasmacytoma may develop myeloma.

**Platelets:** Small cell fragments in the blood that help it to clot.

**Precursor cell:** An earlier form of a cell, for example, B cells are precursors of plasma cells.

**Protocol:** An action plan for a clinical trial that includes detailed description of patients who may join the trial, the therapy that will be given, and the care the patients will receive during and after the trial.

**Randomization:** a method used to prevent bias in research; a computer or a table of random numbers generates treatment assignments, and participants have an equal chance to be assigned to one of tow or more groups (e.g., the control group or the investigational group)

Red blood cell: Oxygen-transporting blood cell.

**Refractory disease:** Disease that is not responsive to initial therapies or relapsed disease.

Relapse: Return of disease or disease progression.

**Remission:** The period during which no evidence of disease is present.

**Salvage therapy:** Second-line therapy; used to treat disease that has not responded to initial therapy or relapsed disease.

**Samarium:** a therapeutic radioisotope linked to a diphosphonate compound, which concentrates in bone.

**Stem cell:** Parent cell that grows and divides to produce red blood cells, white blood cells, and platelets. Found primarily in the bone marrow, but also in the peripheral blood.

**Stem cell transplantation:** Therapeutic procedure in which bone marrow or peripheral blood stem cells are collected, stored, and infused into a patient following high-dose chemotherapy to restore blood cell production.

**Stromal cell:** Structural cells of the bone marrow that help support and nourish the blood-producing cells.

**Syngeneic Stem Cell Transplantation:** A procedure in which bone marrow or peripheral blood stem cells from a patient's identical twin are collected, stored, and infused into the patient following high-dose chemotherapy or radiation therapy.

**T cell:** Also known as a T lymphocyte. Lymphocyte that plays an important role in immune responses and target cell killing.

**T-lymphocytes:** (also called T-cells) Cells of the immune system that play a key role in immune responses and targeted cell killing.

**Tandem Transplant:** Type of transplantation technique where a patient receives an autologous stem cell transplant followed by a mini-transplant two to four months afterward.

Vascular endothelial growth factor (VEGF): One of the major growth factors that promotes angiogenesis.

**White blood cell:** Also called a leukocyte. One of the major cell types in the blood. Responsible for immune defenses.

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